

Shine a light on your larger particles (liquid or dry dispersion) using lasers!

Thursday, August 25th

- 08:15 Registration
- 08:30 Welcome and Introduction
- 08:45 Laser Diffraction (**LD Theory**) - Introduction, Mie Vs Fraunhofer theory, measurements possible, wet or dry measurements
Kalliope software overview, measurement settings, error messages, and capabilities
- 10:30 Coffee break**
- 10:45 **Lab Session 1, Liquid sample analyses (LD Hands-on)**
How to choose the right solvent, measurement settings overview, how to use ultrasonication, stirrer speed and surfactants, role of refractive index, transmittance and concentration values, how to add and remove the SVU, second circulation loop, how to clean a sample cell, how to change tubing, impeller etc...
Lab Instrumentation Tour
- 12:30 Lunch**
- 13:00 **Lab Session 2, Dry sample analyses (LD Hands-on)**
How to choose the right dry sample dispersion parameters, free-fall or venturi dispersion selection, measurement settings overview
- 15:00 Coffee break**
- 15:15 Introduction to Particle Imaging and Shape: Vision Analytical add-on to the PSA
Remote session with Peter Bouza: Importance of Particle Shape
- 16:30 PSA Case studies: Real world applications for the PSA
- 17:30 End of Day One**

Friday, August 26th

- 08:30 **Lab Session 3, Bring Your Own Samples**
Bring your own samples/solvents and work with the trainers to develop a testing procedure on the PSA
- 10:30 Coffee break**
- 10:45 Cleaning the PSA
Open discussion
- 12:30 Lunch**
- 13:00 End of PSA Academy**